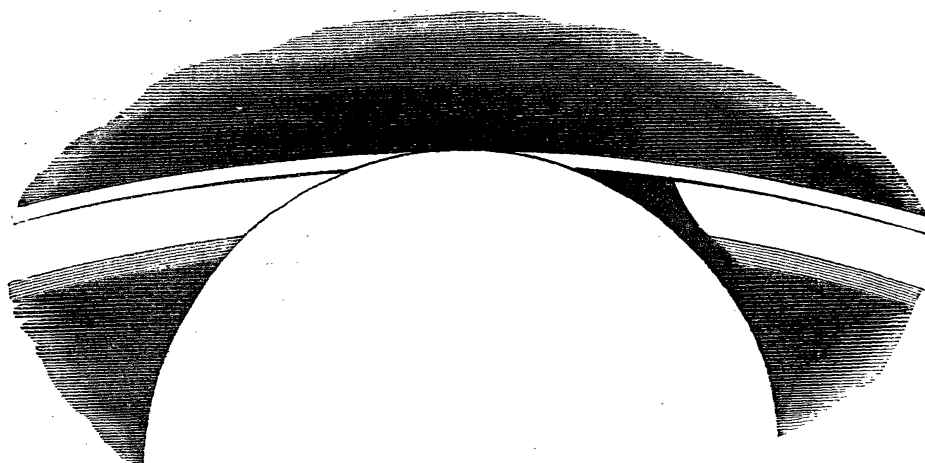


"I subjoin a sketch of that portion of the planet necessary to exhibit the position of the shadow; and perhaps it may be de-



sirable to add, with reference to the value of the observation, as illustrative of the quality of the vision afforded by the condition of the atmosphere, and the excellence of a speculum lately refigured for me by Mr. Lassell, that the small star of  $\gamma$  *Andromedæ*, also near the meridian, was readily *divided* with the power 462, the division being seen not by occasional and instantaneous glimpses, but steadily and repeatedly for three or four seconds at a time, with such distinctness that an eye used to such objects could scarcely have overlooked the duplicity. The transparency also of *Saturn's* faint ring was also satisfactorily visible, especially at the preceding limb of the ball, where it was more manifest than at the other side."

*Observations of Amphitrite and Bellona made at the Observatory of Cambridge. By Professor Challis.*

AMPHITRITE.

CAMBRIDGE.

|                  | Green. M.T.                            | R.A.                                   | Par. Corr.        | N.P.D.              | Par. Corr.        | No. of |           |
|------------------|----------------------------------------|----------------------------------------|-------------------|---------------------|-------------------|--------|-----------|
|                  | <sup>h</sup> <sup>m</sup> <sup>s</sup> | <sup>h</sup> <sup>m</sup> <sup>s</sup> | $\times \Delta$ . | $^{\circ}$ $'$ $''$ | $\times \Delta$ . | Comps. | Star.     |
| 1854.<br>March 6 | 11 48 21.8                             | 13 15 2.08                             | -0.215            | 100 3 56.0          | -7.37             | 13     | <i>a</i>  |
| 11               | 11 42 48.2                             | 13 11 54.65                            | -0.193            | 99 58 56.6          | -7.41             | 6      | <i>a'</i> |
| 13               | 10 53 47.5                             | 13 10 32.19                            | -0.242            | 99 56 12.7          | -7.31             | 10     | <i>b</i>  |
| 16               | 13 30 36.1                             | 13 8 11.68                             |                   | 99 50 28.9          | -7.55             |        | Meridian. |

*Assumed Apparent Places of the Stars.*

|           | Apparent R.A.                          | Apparent N.P.D.     | Catalogue.       |
|-----------|----------------------------------------|---------------------|------------------|
|           | <sup>h</sup> <sup>m</sup> <sup>s</sup> | $^{\circ}$ $'$ $''$ |                  |
| <i>a</i>  | 13 16 16.79                            | 100 6 26.0          | Bessel xiii. 256 |
| <i>a'</i> | 13 16 16.88                            | 100 6 26.6          | —                |
| <i>b</i>  | 13 9 49.87                             | 99 46 34.0          | Bessel xiii. 155 |

## BELLONA.

## CAMBRIDGE.

|                   | Green. M.T. |    |         | R.A. |    |       | Par. Corr. | N.P.D. |    |      | Par. Corr. | No. of | Star      |
|-------------------|-------------|----|---------|------|----|-------|------------|--------|----|------|------------|--------|-----------|
|                   | h           | m  | s       | h    | m  | s     | × Δ.       | °      | '  | "    | × Δ.       | Comps. |           |
| 1854.<br>March 10 | 10          | 41 | 4.4     | 11   | 59 | 29.80 | −0.183     | 81     | 34 | 50.0 | −6.02      | 8      | c         |
|                   | 11          | 10 | 13 32.2 | 11   | 58 | 46.83 | −0.213     | 81     | 25 | 44.9 | −6.05      | 9      | c'        |
|                   | 13          | 12 | 31 37.3 | 11   | 57 | 13.51 |            | 81     | 6  | 51.8 | −5.85      |        | Meridian. |
|                   | 16          | 12 | 17 34.9 | 11   | 54 | 58.49 |            | 80     | 40 | 11.8 | −5.80      |        | —         |

*Assumed Apparent Places of the Star.*

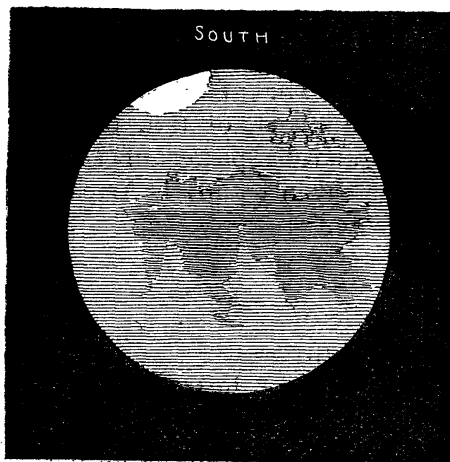
|    | Apparent R.A. |    |       | Apparent N.P.D. |    |      | Catalogue.     |
|----|---------------|----|-------|-----------------|----|------|----------------|
|    | h             | m  | s     | °               | '  | "    |                |
| c  | 11            | 56 | 50.95 | 81              | 47 | 15.3 | Bessel xi. 973 |
| c' | 11            | 56 | 50.96 | 81              | 47 | 15.4 | —              |

The equatoreal observations were taken with the Northumberland telescope.

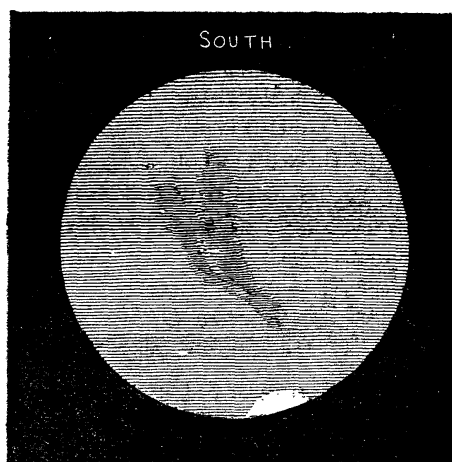
*On the Influence of Climate upon the Telescopic Appearance of a Celestial Body.* By James William Grant, Esq.

(Extract of a Letter to the Editor.)

"I send you two sketches of *Mars*, made whilst the planet was in opposition. No. 1 was an attempt made in October 1847 to depict it as seen in Calcutta through a 5-foot achromatic belonging to me, the planet being then in opposition; No. 2 I tried my



1



2

hand upon a few days ago, and it shows what I saw through the large telescope.\* The atmosphere in India is very different for observation to anything I have seen here. My Indian sketch, you will observe, is actually a little world; and I doubt whether the large glass here would show it equally well, even were the weather favourable, which, I am sorry to say, hitherto it has not been.

\* The telescope to which Mr. Grant refers is a refractor of 11 inches aperture and 16 feet focal length, by Mr. Ross, of Featherstone Buildings. It is the instrument which formed such a conspicuous object in the nave of the Crystal Palace during the Great Exhibition of 1851.

B